



# 6

# SEQUENCE LISTING

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<120> Novel Vector Constructs

<130> 4-31890A/GTI

<140> US 10/081,961

<141> 2002-02-22

<150> US 60/270,885

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<160> 8

<170> PatentIn version 3.1

<210> 1

<211> 140

<212> DNA

<213> Simian virus 40

<220>

<221> misc\_feature

<222> (1)..(140)

<223> Fig. 1 A

<400> 1

cttatcgata ccgtcgaaac ttgtttattg cagcttataa tggttacaaa taaagcaaca	60
caaatttcac aaataaagca tttttttcac tgcattctag ttgtggtttg tccaaactca	120
tcaatgtatc ttatcatgtc	140

<210> 2

<211> 600

<212> DNA

<213> Human adenovirus type 5

<220>

<221> misc\_feature

<222> (1)..(600)

<223> Fig. 2 - ElA transcription control region

<400> 2

catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt	60
ttgtgacgtg gcgcggggcg tgggaacggg gcgggtgacg tagtagtgtg gcggaagtgt	120
gatgttgcaa gtgtggcgga acacatgtaa gcgacggatg tggcaaaagt gacgtttttg	180
gtgtgcgccg gtgtacacag gaagtgacaa ttttcgcgcg gttttaggcg gatgtttag	240
taaattttggg cgtaaccgag taagatttgg ccattttcgc gggaaaactg aataagagga	300
agtgaatct gaataatttt gtgttactca tagcgcgtaa tatttgtcta gggccgcggg	360
gactttgacc gtttacgtgg agactcgccc aggtgttttt ctcaggtgtt ttccgcgttc	420
cgggtcaaag ttggcgtttt attattatag tcagctgacg tgtagtgtat ttatacccgg	480

tgagttcctc	aagaggccac	tcttgagtgc	cagcgagtag	agttttctcc	tccgagccgc	540
tccgacaccg	ggactgaaaa	tgagacatat	tatctgccac	ggaggtgtta	ttaccgaaga	600

<210> 3  
 <211> 1802  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> viral vector construct

<220>  
 <221> misc\_feature  
 <222> (1)..(1802)  
 <223> Fig. 3 A - left end of Ar6pAE2fF sequence

<400> 3		
catcatcaat	aatatacctt	atthttggatt
ttgtgacgtg	gcgcggggcg	tgggaacggg
cgataccgtc	gaaacttggt	tattgcagct
acaaatttca	caaataaagc	atthtttttca
atcaatgtat	cttatcatgt	ctggatccgc
gcgcgccccg	ccccgccatt	ggcgcgtaccg
ccgcgcgggtc	cggcgcgtta	aagccaatag
gggcagccaa	ttgtggcggc	gctcggcggc
gcgcgtaaaa	gtggccggga	ctttgcaggc
ccctcgatga	tatcagatca	tccgatcccc
acggaggtgt	tattaccgaa	gaaatggccg
tactggctga	taatcttcca	cctcctagcc
atgatttaga	cgtgacggcc	cccgaagatc
ccgactctgt	aatgttggcg	gtgcaggaag
ccggttctcc	ggagccgcct	cacctttccc
tgggtccggt	ttctatgcca	aaccttgtac
ctggctttcc	accagtgac	gacgaggatg
tggagcacc	cgggcacggt	tgcaggtctt
cagatattat	gtgttcgctt	tgctatatga
gaaaattatg	ggcagtggtg	gatagagtgg
ttttacagtt	ttgtggttta	aagaattttg
tgaacctgag	cctgagcccc	agccagaacc
aatggcgcc	gctatccctga	gacgcccagc
tacggatagc	tgtgactccg	gtccttctaa
gctgtgcccc	attaaaccag	ttgccgtgag
tatcgaggac	ttgcttaacg	agcctgggca
gccataaggt	gtaaacctgt	gattgcgtgt
tgatgtaagt	ttaataaagg	gtgagataat
ggggcttaaa	gggtatataa	tgcgcggtgg
ggcctgggag	tgthttggaag	atthttctgc
ca		

<210> 4  
 <211> 532  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> viral vector construct

<220>  
 <221> misc\_feature  
 <222> (1)..(532)  
 <223> Fig. 3 B - right end of Ar6pAE2fF sequence  
  
 <400> 4  
 aacctacgcc cagaaacgaa agccaaaaaa cccacaactt cctcaaactg tcaacttccgt 60  
 tttccacagt tacgtcactt cccattttta ttaagaattc tacaattccc aacacataca 120  
 agttactccg ccctaaaacc ctgggcgagt ctccacgtaa acggtcaaag tccccgcggc 180  
 cctagacaaa tattacgcgc tatgagtaac acaaaattat tcagatttca cttcctctta 240  
 ttcagttttc ccgcgaaaat ggccaaatct tactcgggta cgcccaaatt tactacaaca 300  
 tccgcctaaa accgcgcgaa aattgtcact tctgtgtac accggcgcac accaaaaacg 360  
 tcaacttttg cacatccgtc gcttacatgt gttccgccac acttgcaaca tcacacttcc 420  
 gccacactac tacgtcaccg gcccgttcc cagccccgc gccacgtcac aaactccacc 480  
 ccctcattat catattggct tcaatccaaa ataaggtata ttattgatga tg 532

<210> 5  
 <211> 660  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> viral vector construct

<220>  
 <221> misc\_feature  
 <222> (1)..(660)  
 <223> Fig. 4 - left end of Ar6F sequence

<400> 5  
 catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt 60  
 ttgtgacgtg gcgcggggcg tgggaacggg gcgggtgacg tagggcgcg cgctagcgat 120  
 atcggatccc ggtcgactga aaatgagaca tattatctgc cacggagggtg ttattaccga 180  
 agaaatggcc gccagtcttt tggaccagct gatcgaagag gtactggctg ataactcttc 240  
 acctcctagc cattttgaac cacctaccct tcacgaactg tatgatttag acgtgacggc 300  
 cccgaagat cccaacgagg aggcggtttc gcagattttt cccgactctg taatggtggc 360  
 ggtgcaggaa gggattgact tactcacttt tccgcggcg cccggttctc cggagccgcc 420  
 tcacctttcc cggcagcccg agcagccgga gcagagagcc ttgggtccgg tttctatgcc 480  
 aaaccttgta ccggagggtg tcgatcttac ctgccacgag gctggctttc caccagtgta 540  
 cgacgaggat gaagagggtg aggagtttgt gttagattat gtggagcacc ccgggcacgg 600  
 ttgcaggctc tgtcattatc accggaggaa tacgggggac ccagatatta tgtgttcgct 660

<210> 6  
 <211> 660  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> viral vector construct

<220>  
 <221> misc\_feature  
 <222> (1)..(660)  
 <223> Fig. 5 - left end of Ar6pAF sequence

<400> 6  
 catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt 60

ttgtgacgtg	gcgcggggcg	tgggaacggg	gcgggtgacg	tagggcgcgga	tcaagcttat	120
cgataccgtc	gaaacttggt	tattgcagct	tataatgggt	aaaataaag	caatagcatc	180
aaaatttca	aaaataaagc	atTTTTTTca	ctgcattcta	gttgtgggtt	gtccaaactc	240
atcaatgtat	cttatcatgt	ctggatccgc	gccgctagcg	atatcggatc	ccggtcgact	300
gaaaatgaga	catattatct	gccacggagg	tgttattacc	gaagaaatgg	ccgccagtct	360
tttgaccag	ctgatcgaag	aggtactggc	tgataatctt	ccacctcta	gccattttga	420
accacctacc	cttcacgaac	tgtatgattt	agacgtgacg	gccccgaag	atcccaacga	480
ggaggcggtt	tcgcagattt	ttcccgactc	tgtaatgttg	gcgggtgcagg	aagggattga	540
cttactcact	tttccgccgg	cgcccggttc	tccggagccg	cctcaccttt	cccggcagcc	600
cgagcagccg	gagcagagag	ccttgggtcc	ggtttctatg	ccaaaccttg	taccggagggt	660

<210> 7  
 <211> 11  
 <212> DNA  
 <213> Human adenovirus type 5

<220>  
 <221> misc\_feature  
 <222> (1)..(11)  
 <223> 11 bp repeat element in the Ela enhancer

<400> 7	
aggaagtgac a	11

<210> 8  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Viral vector sequence

<220>  
 <221> misc\_feature  
 <222> (1)..(24)  
 <223> Fig. 1C. SV40 early Poly(A) site

<220>  
 <221> polyA\_site  
 <222> (3)..(24)  
 <223>

<400> 8	
gcaaaaaaaaa aaaaaaaaaa aaaa	24